

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 1.-26. (Canceled).
27. (Previously presented) A fuel cell system, comprising:  
a fuel cell stack producing an anode effluent stream; and  
a hydrogen generation unit configured to produce a hydrogen gas stream from the anode effluent stream of the fuel cell stack;  
a hydrogen storage unit into which at least a portion of the produced hydrogen gas stream is stored; and  
a structure coupled to said hydrogen storage unit that heats said fuel cell stack by promoting an exothermic reaction using hydrogen from said hydrogen storage unit.
28. (Original) The system according to claim 27 wherein the hydrogen storage unit comprises one or more mechanisms selected from the group consisting of metal hydride bed, hydrogen sorption material, and compressed gas bottle.
29. (Previously presented) The system according to claim 27 wherein the structure comprises a metal hydride.
30. (Original) The system according to claim 27 wherein the hydrogen generation unit comprises a hydrogen separation membrane.
31. (Original) The system according to claim 27 further comprising a temperature control unit.

32. (Original) The system according to claim 31 wherein the temperature control unit is a heat exchanger.
33. (Canceled).
34. (Original) The system according to claim 27 further comprising:  
a hydrogen means for providing additional power during high load on the fuel cell stack.
35. (Canceled).
36. (Previously presented) A fuel cell system, comprising:  
a fuel cell stack; and  
a means for obtaining hydrogen from an anode effluent stream of the fuel cell stack;  
a means for storing said hydrogen; and  
a means for heating said fuel cell stack and for speeding up fuel cell startup.
37. (Original) The system according to claim 36 wherein the means for hydrogen storage comprises a metal hydride.
38. (Original) The system according to claim 36 wherein the means for obtaining hydrogen comprises hydrogen separation membrane.
39. (Canceled).
40. (Original) The system according to claim 36 further comprising a temperature control unit.

41. (Original) The system according to claim 36 wherein the temperature control unit is a heat exchanger.

42. (Canceled).

43. (Original) The system according to claim 36 further comprising:  
a hydrogen means for providing additional power during high load on the  
fuel cell stack.

44. (Canceled).